

Separating Mixtures

Name:

Date:

INQUIRY

Nanjing's tap water comes from the muddy Yangtze. How do they make it clear and safe to drink?

Discuss with your partner. Write your initial ideas below:

Key Vocabulary

Term	Definition
Filtration	Separates insoluble solid from liquid.
Evaporation	Heats solution — solvent leaves, solute stays.
Distillation	Collects pure solvent by condensing steam.

Part A — Matching Techniques

1. Match: (a) sand+water (b) salt+water(want salt) (c) salt+water(want water) (d) ink colours → filtration/evaporation/distillation/chromatography. [4 marks]

Part B — Application

2. Describe how to get pure salt from rock salt (a mixture of salt and sand). Include all steps. [4 marks]

3. Korean sea salt (cheonilyeom) is made by evaporating seawater. Explain why this is evaporation, not distillation.

[2 marks]